Product Specification

802.11n Wireless Outdoor Access Point

WNAP-6305

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Change History:

Revision	Date	Author	Change List
Version 1.1	2012-07-19	Miki Chou	1. Add supporting of Planet DDNS 2. Add supporting of Planet Smart Discovery 3. Add Multiple SSID
Version 1.0	2011-06-21	Miki Chou	Initial release

Author	Miki	Editor:	Miki
Approved by:	Tom	Project Leader:	Kent

1. PRODUCT DESCRIPTION

PLANET Technology Corp. provides a wireless solution that higher transmission speed, higher power better performance designed for outdoor wireless application, the Wireless Outdoor Access Point -WNAP-6305.

Faster Speed and Widely Range

Adopting IEEE 802.11n advanced MIMO technology; it provides reliable wireless network coverage, and incredible improvement in the wireless performance. As an IEEE 802.11b/g/n compliant wireless device, the WNAP-6305 is able to give stable and efficient wireless performance for long distance application, while designed with IEEE 802.11n standard and 1T1R MIMO technology makes it possible to deliver three times faster data rate up to 150Mbps than normal 802.11g wireless device. With its adjustable output power up to 600mW can extend the higher coverage up to 10Km for outdoor long range application.

Multiple Operating & Wireless Modes

It Supports multiple wireless communication connectivity (AP / Client CPE / WDS PtP / WDS PtMP / Repeater / Universal Repeater), allowing for various application requirements that gives user more comprehensive experience when using WNAP-6305. It also helps user easily to build wireless network and extend the wireless range of existed wireless network.

Advanced Wireless Security

In aspect of security, besides 64/128- bit WEP encryption, the WNAP-6305 integrates WPA / WPA2, WPA-PSK / WPA2-PSK and 802.1x authority to secure and protect your wireless LAN. The wireless MAC filtering and SSID broadcast control to consolidate the wireless network security and prevent unauthorized wireless connection.

Perfect Solution for Outdoor Environment

The WNAP-6305 is perfectly suitable to be installed in outdoor environments and exposed locations. With its IP55 casing protection, the WNAP-6305 can perform normally under rigorous weather conditions including heavy rain and wind. With the proprietary Power over Ethernet (PoE) design, the WNAP-6305 can be easily

installed in the areas where power outlets are not available. It is the best way using the WNAP-6305 to build outdoor wireless access applications between buildings on campuses, business, rural areas and etc.

Easy Installation & Management

With User-friendly Web UI and step by step Setup Wizard, it is easier to install, even through a user who never experiencing setup a wireless network.

2. PRODUCT FEATURES

- **Industrial Compliant Wireless LAN & LAN**
  - Compliant with IEEE 802.11n wireless technology capable of up to 150Mbps data rate
  - Backward compatible with 802.11b/g standard
  - Equipped with 10/100Mbps RJ-45 Ports for LAN & WAN, Auto MDI/ MDI-X Supportsed
- **Fixed-network Broadband Router**
  - Supportsed connection types: Dynamic IP/ Static IP / PPPoE / PPTP / L2TP
  - Supports multiple sessions IPSec, L2TP and PPTP VPN pass-through
  - Supports Virtual Server, DMZ and Port Forwarding for various networking applications
  - Supports DHCP Server, UPnP, Dynamic DNS
- **RF Interface Characteristics**
  - Built-in 12dBi Directional Antenna
  - High Output Power Up to 600mW with multiple adjustable transmit power control
  - Reserve RP-SMA Type Connector
- **Outdoor Environmental Characteristics**
  - IP55 Enclosure, Outdoor UV Stabilized Plastic
  - Passive Power Over Ethernet Design
  - Reset Button on PoE Injector
  - Operating Temperature: -20~70°C
- **Multiple Operation & Wireless Mode**
  - Multiple Operation Modes: Bridge, Gateway, Ethernet Converter
  - Multiple Wireless Modes: AP, Client CPE(WISP), WDS PtP, WDS PtMP, Repeater, Universal Repeater
  - Supports Multiple SSID to allow users to access different networks through a single AP
- **Secure Network Connection**
  - Supports Software Wi-Fi Protected Setup (WPS)

- Advanced security: 64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK(TKIP/AES), and 802.1x Authentication
- Supports NAT firewall features, with SPI function to protect against DoS attacks.
- Supports IP / Protocol-based access control and MAC Filtering

➢ **Easy Installation & Management**

- Web-based UI and Quick Setup Wizard for easy configuration
- Remote Management allows configuration from a remote site
- System status monitoring includes DHCP Client, System Log

3. PRODUCT SPECIFICATION

3.1 MAIN COMPONENT

Chipset:	Ralink RT3050
RAM :	16MB
Flash :	4MB

3.2 FUNCTIONAL SPECIFICATIONS

Product	**WNAP-6305** 150Mbps 802.11n Wireless Outdoor Access Point
Hardware Specification	
Standard Support	IEEE802.11b/g IEEE 802.11n IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3x Flow Control
Chipset	Ralink RT3050
Memory	16 Mbytes DDR SDRAM 4 Mbytes Flash
Interface	Wireless IEEE802.11b/g/n LAN: 1 x 10/100Base-TX, Auto-MDI/MDIX WAN: 1 x 10/100Base-TX, Auto-MDI/MDIX
Antenna	Internal (Default): 12dBi directional antenna (Vertical-Pol) ■ Horizontal: 60 degree ■ Vertical: 30 degree External (Option): RP-SMA (Female) type Connector ■ Switchable by Software ■ For External Antenna Mode, attach antenna before power on
Enclosure	IP55 waterproof case
PoE	Passive PoE / 12V DC Reset Button on PoE Injector LAN RJ-45 Pin Assignment: PIN 4(+), PIN 7,8(-), PIN 5(Reset)

Wireless Interface Specification	
Frequency Band	2.4~2.4835GHz
Modulation	Transmission/Emission Type: DSSS / OFDM Data modulation type: OFDM with BPSK, QPSK, 16-QAM, 64-QAM, DBPSK, DQPSK, CCK
Data Rate	802.11b: 11, 5.5, 2 and 1 Mbps with auto-rate fall back 802.11g: 54, 48, 36, 24, 18, 12, 9 and 6Mbps 802.11n (20MHz): up to 72Mbps 802.11n (40MHz): up to 150Mbp
Opt. Channel	America/ FCC: 2.414~2.462GHz (11 Channels) Europe/ ETSI: 2.412~2.472GHz (13 Channels) Japan/ TELEC: 2.412~2.484GHz (14 Channels)
RF Output Power	802.11b: 27 ± 1dBm 802.11g: 26 ± 1dBm 802.11n: 22 ± 1dBm
Receiver Sensitivity	IEEE 802.11b: -93dBm IEEE 802.11g: -91dBm IEEE 802.11n: -89dBm
Media Access Control	CSMA/CA
Output Power Control	Range 1~100, default:100
Power Requirements	12V DC, 1A (switching)
Wireless Management Features	
Wireless Mode	■ AP ■ Client ■ WDS PtP ■ WDS PtMP ■ WDS Repeater (AP+WDS) ■ Universal Repeater (AP+Client)
Channel Width	20MHz / 40MHz
Encryption Security	64/128-bits WEP WPA, WPA-PSK WPA2, WPA2-PSK 802.1X
Multiple-SSID	Supports up to 4 SSID
Wireless Isolation	Enable it to isolate each connected wireless clients, to let them cannot access mutually.
Wireless Security	Provide wireless LAN ACL (Access Control List) filtering
	Wireless MAC address filtering
	Supports WPS (WIFI Protected Setup)
	Enable/Disable SSID Broadcast
B/G Protection Mode	A protection mechanism prevents collisions among 802.11b/g modes
Max. Wireless Client	25
Max. WDS AP	4
Software	
LAN	Built-in DHCP server Supporting static IP address distributing
	Supports UPnP
	Supports IGMP Proxy, DNS Proxy

	Supports 802.1d STP - Spanning Tree Protocol
WAN Protocol	■ Static IP ■ DHCP (Dynamic IP) ■ PPPoE ■ PPTP ■ L2TP
VPN Passthrough	■ PPTP ■ L2TP ■ IPSec
Operating Mode	■ Bridge ■ Gateway ■ Ethernet Converter (WISP)
Firewall	NAT firewall with SPI (Stateful Packet Inspection)
	Built-in NAT server Supporting Port Forwarding (Virtual Server), and DMZ
	Built-in firewall with Port/ IP address/ MAC/ URL filtering
Max. Wired Client	60
NTP	Network Time Management
Management	Web UI, DHCP Client, Configuration Backup & Restore
	Supports Planet Dynamic DNS
	Supports Planet Smart Discovery
Diagnostic tool	System Log
Environment & Certification	
Operation Temp.	Temp.: -20~70°c, Humidity: 10%~95% non-condensing
Storage Temp.	Temp.: -30~80°c, Humidity: 5%~95% non-condensing
IP Level	IP55
Regulatory	CE / FCC / RoHS

3.3 Physical Specification

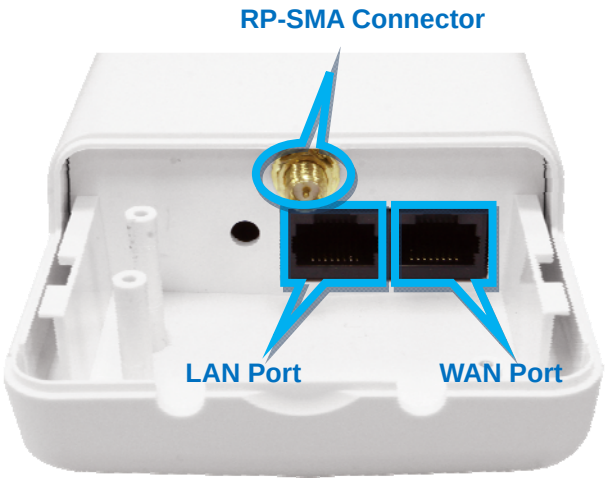
Dimensions

77 x 225 x 60 mm (D x W x H)

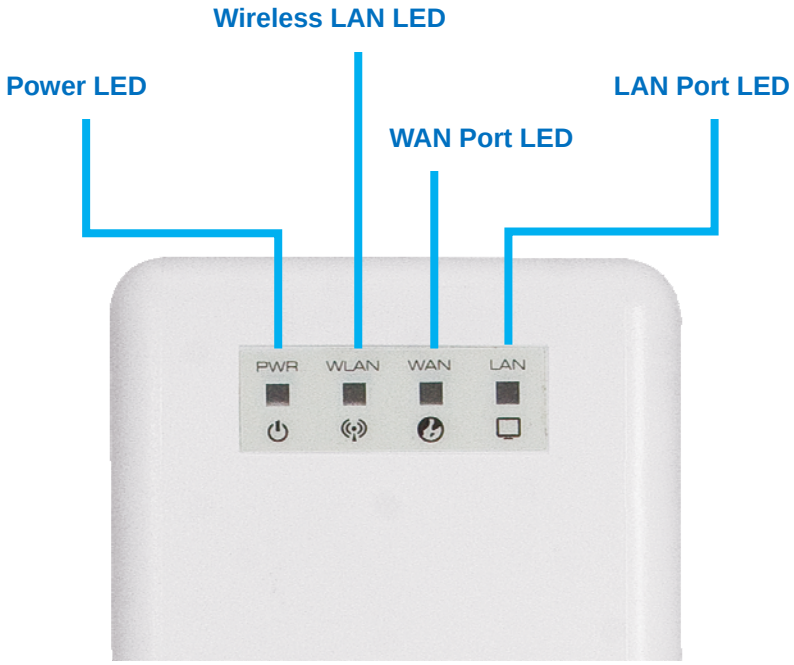
Weight

255g

Rear Panel – Port & Connector



Rear Panel - LED



LED definition

LED	State	Meaning
Power	On	System On
	Off	System Off
WLAN	On	Wireless Radio ON.
	Off	Wireless Radio Off.
	Blinking	Data is transmitting or receiving on the wireless.

WAN	On	Port linked.
	Off	No link.
	Blinking	Data is transmitting or receiving on the WAN interface.
LAN	On	Port linked.
	Off	No link.
	Blinking	Data is transmitting or receiving on the LAN interface.

Button definition

Active	Time
Reset	Push continually the reset button of POE injector about 5 ~ 10 seconds to reset the configuration parameters to factory defaults.

3.4 Environmental Specification

Operating

Temperature: -20°c ~70°c
Relative Humidity: 10% ~ 90 % non-condensing

Storage

Temperature: -30°c ~80°c
Relative Humidity: 5% ~ 90 % non-condensing

3.5 BASIC PACKAGING

- WNAP-6305 x 1
- Power Adapter x 1
- PoE Injector x 1
- Mounting Tie x 2
- Protective Plug x 2
- Quick Installation Guide x 1
- CD (User's Manual & Quick Installation Guide) x 1

3.6 PACKAGING INFORMATION

Dimension: 301 x 126 x 84 mm

Weight: 540g (gross weight)